

Application Serial No. 10/573,975
Amendment filed January 30, 2009
Reply to Office Action mailed October 3, 2008

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

1-14. (cancelled)

15. (currently amended) A method of determining a local position of a first mobile radio communication device in a radio cell of a radio network of a radio communication system, comprising:

transmitting position information by at least one radio signal from at least one second mobile communication device, the location of which is known either to the at least one second mobile communication device or to the radio network, and which is either in the radio cell or in another radio cell, the at least one radio signal being transmitted to the first mobile radio device via either a direct radio connection or an indirect radio connection via the radio network;

inferring a distance between the first mobile radio communication device and the at least one second mobile communication device on the basis of the signal propagation time of the at least one radio signal.

16. (previously presented) A method according to claim 15, further comprising emitting an inquiry signal from the first mobile radio communication device via its radio interference requesting that each second mobile radio communication device send a radio information signal with position information thereof to the first mobile radio communication device.

17. (previously presented) A method according to claim 16, further comprising, before the emitting an inquiry signal, emitting a preceding inquiry signal from the first mobile radio communication device requesting that each second mobile radio communication device send an acknowledgement signal indicating a readiness thereof to participate in determination of

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the local position of the first mobile radio device.

18. (previously presented) A method according to claim 17, further comprising: transmitting, from the first mobile radio communication device, after receipt of an acknowledgement signal, a retrieval signal retrieving position information of the second mobile radio communication device that sent the received acknowledgement signal.

19. (previously presented) A method according to claim 16, wherein the inquiry signal is a broadcast radio signal.

20. (previously presented) A method according to claim 16, wherein each second mobile radio communication device sends the one radio information signal within a predetermined response period for each respective second mobile radio communication device.

21. (previously presented) A method according to claim 17, wherein a predetermined minimum accuracy of a position of each second mobile radio communication device is a condition for each respective second mobile radio communication device to send the acknowledgement signal.

22. (previously presented) A method according to claim 16, wherein a time difference between a receipt of an inquiry signal and a sending a radio information signal by each respective second mobile radio communication device is included in each radio information signal as a position parameter of the position information.

23. (previously presented) A method according to claim 22, wherein a current position of each respective second mobile radio communication device and/or a sending time of the radio information signal from each respective second mobile radio communication device is included in each radio information signal as a position parameter of the position information.

24. (previously presented) A method according to claim 16, further comprising calculating the position of the first mobile radio communication device via a Round Trip Time (RTT), an Observed Time Difference of Arrival (OTDOA), and/or a Global Positioning System (GPS) position device in the first mobile radio communication device using the position

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information included in each radio information signal.

25. (previously presented) A method according to claim 24, wherein, in the calculating, position information received by the first mobile radio communication device is used.

26. (previously presented) A method according to claim 15, further comprising transmitting the position information received by the first mobile radio communication device to a position determining unit in the radio network which calculates a current local position of the first mobile radio communication device.

27. (currently amended) A radio communication device, comprising:
an inquiry unit for requesting position information from at least one mobile radio communication device located in a radio cell of a radio network of a radio communication system or in a different radio cell, a position of the at least one mobile radio communication device being known to either the at least one mobile radio communication device or to the radio network;
a receiving unit receiving at least one radio information signal respectively from the at least one mobile radio communication device and evaluating the received at least one radio information signal, each radio information signal including position information of the known position of the respective at least one mobile communication device sending the radio information signal,

wherein the at least one radio information signal is transmitted via either a direct radio connection or an indirect radio connection via the radio network;

and wherein a distance between the first mobile radio communication device and the at least one second mobile communication device is inferred on the basis of the signal propagation time of the at least one radio signal.

28. (previously presented) A radio communication system comprising the radio communication device of claim 27.